

ABSTRACT

An electrolyte for a photovoltaic device including
(i) a layered clay mineral and/or an organically modified
5 layered clay mineral and (ii) an ionic liquid as well as
a photovoltaic device including a photoelectrode
including a transparent conducting layer and a metal
oxide semiconductor mesoporous film using, as an
electrolyte layer, the same, a counter electrode facing
10 this photoelectrode and an electrolyte layer arranged
between the photoelectrode and the counter electrode as
well as a dye-sensitized solar cell composed of a
photovoltaic device and a photosensitizer carried on a
metal oxide semiconductor mesoporous film of the
15 photovoltaic device, wherein the conductive substrate is
obtained by coating, on a conductive substrate, a
conductive polyaniline dispersion stably dispersed in an
organic solvent including (A) a polyaniline obtained by
polymerization of aniline or an aniline derivative, (B) a
20 sulfonic acid compound and/or (C) an organic polymer
having a protonic acid group, (D) a molecular weight
modifier, and (E) an organic solvent capable of
dissolving the sulfonic acid compound (B), the organic
polymer having a protonic acid group (C), and the
25 molecular weight modifier (D).